

Subject: Physics - APR

Date	Exams/ Assess	Unit(s)
1/9/25		Consolidation of learning for spec 3.6.2 – SHM - The mathematics of Simple Harmonic Motion - The SHM pendulum experiment - Required Practical 7 – SHM and Mass-Spring systems - Resonance
8/9/25		
15/9/25		
22/9/25		
29/9/25		
6/10/25		
13/10/25		
20/10/25		Specification 3.7.1 & 3.7.2 Gravitational fields - Gravitational fields and field strength - Newton's law of gravitation - Kepler's laws and satellites - Gravitational potential and energy - Escape velocity Specification 3.7.3 Electric fields - Electric fields and field lines - Equipotentials - Motion of a charged particle - Millikan's experiment - Coulomb's law Revision and exam practice for spec 3.6 Further Mechanics
3/11/25		PPE1 – Assess knowledge and understanding of specification 3.1, 3.2, 3.3, 3.4, 3.5, 3.6 and 3.7(1-3) Specification 3.7.4 Capacitance - Charging and discharging capacitor - Energy stored by a capacitor - Required Practical 9 Specification 3.7.5 - Magnetic fields and forces - The Motor effect and FLHR - Magnetic flux - Mass spectrometer - EM Induction, Lenz' and Faraday's laws - Mains a.c - Transformers - Required Practicals 10 and 11
10/11/25		
17/11/25		
24/11/25		
1/12/25		
8/12/25		
15/12/25		
5/1/26		Specification 3.8 – Nuclear Physics - Discovery of the nucleus and nuclear dimensions - Nuclear decay and the segre chart - Half-life
12/1/26		
19/1/26		
26/1/26		
2/2/26		
9/2/26		PPE1 – Assess knowledge and understanding of specification 3.1-3.7 as well as astrophysics spec 3.9.1 and 3.9.2

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23/2/26		Specification 3.8 – Nuclear Physics • Intensity and absorption • Mass defect and binding energy • Background radiation • Required Practical 12
2/3/26		
9/3/26		
16/3/26		
23/3/26		
30/3/26		Revision and exam practice for Paper 3 – Section A (practical skills and error analysis)
20/4/26		Revision and exam practice for spec 3.6 Further Mechanics
27/4/26		
4/5/26		Revision and exam practice for spec 3.7 Fields and their consequences Revision and exam practice for spec 3.8 Nuclear Physics
11/5/26		Start of exams
18/5/26		
1/6/26		
8/6/26		
15/6/26		
22/6/26		
29/6/26		
6/7/26		
13/7/26		